

**Listing of Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-26. (Canceled).

27. (Original) An interconnect structure, comprising:  
a first conductive layer located in a substrate;  
a dielectric layer overlying the first conductive layer and having an opening extending to  
the first conductive layer; and  
a second conductive layer located in the opening and contacting a portion of the first  
conductive layer, wherein an interface between the first and second conductive layers  
substantially conforms to a substantially curvilinear profile.

28. (Original) The interconnect structure of claim 27 wherein the profile has a depth  
relative to the substrate of at least 200 Å.

29. (Original) The interconnect structure of claim 27 wherein the profile has a depth  
relative to the substrate ranging between about 300 Å and about 800 Å.

30. (Original) The interconnect structure of claim 27 wherein the profile has a depth  
relative to the substrate ranging between about 500 Å and about 700 Å.

31. (Original) The interconnect structure of claim 27 further comprising a diffusion  
barrier layer interposing the dielectric layer and the second conductive layer.

32. (Original) The interconnect structure of claim 27 further comprising a diffusion  
barrier layer interposing the first and second conductive layers and substantially conforming to  
the interface profile.

33. (Original) The interconnect structure of claim 27 wherein the interface profile is  
substantially W-shaped.

34. (Original) The interconnect structure of claim 27 wherein the interface profile includes a peak having a height ranging between about 25% and about 75% of a depth of the interface profile relative to the substrate.

35. (Original) The interconnect structure of claim 27 wherein the interface profile includes a peak having a height that is about 50% of a depth of the interface profile relative to the substrate.

36. (Original) The interconnect structure of claim 27 wherein the interface profile is substantially concave relative to the substrate.

37. (Original) The interconnect structure of claim 27 wherein the interface profile is a shallow-peaked profile including a peak having a height ranging between about 5% and about 25% of a depth of the interface profile relative to the substrate.

38. (Original) The interconnect structure of claim 27 wherein the interface profile is a substantially trapezoidal, peaked profile.

39. (Original) The interconnect structure of claim 27 wherein the opening is one of a via hole opening and a dual damascene opening.

40. (Original) The interconnect structure of claim 27 wherein at least one of the first and second conductive layers comprises one of copper and a copper alloy.

41. (Original) An integrated circuit device, comprising:  
a plurality of semiconductor devices coupled to a substrate; and  
an interconnect structure coupling ones of the plurality of semiconductor devices, the  
interconnect structure including:  
a plurality of first conductive layers;  
a dielectric layer overlying ones of the plurality of first conductive layers and having a  
plurality of openings each extending to one of the plurality of first conductive layers; and  
a plurality of second conductive layers located in ones of the plurality of openings and  
each contacting a portion of one of the plurality of first conductive layers, wherein each interface  
between corresponding ones of the first and second conductive layers substantially conforms to a  
substantially curvilinear profile.

42. (Original) The integrated circuit device of claim 41 wherein the profile has a  
depth relative to a corresponding one of the plurality of first conductors of at least 200 Å.

43. (Original) The integrated circuit device of claim 41 wherein the profile has a  
depth relative to a corresponding one of the plurality of first conductors ranging between about  
300 Å and about 800 Å.

44. (Original) The integrated circuit device of claim 41 wherein the profile has a  
depth relative to a corresponding one of the plurality of first conductors ranging between about  
500 Å and about 700 Å.

45. (Original) The integrated circuit device of claim 41 wherein the interconnect  
structure further includes a plurality of diffusion barrier layers each interposing the dielectric  
layer and one of the plurality of second conductive layers.

46. (Original) The integrated circuit device of claim 41 wherein the interconnect  
structure further includes a plurality of diffusion barrier layers each interposing one of the  
plurality of first conductive layers and a corresponding one of the plurality of second conductive  
layers.

47. (Original) The integrated circuit device of claim 41 wherein the profile is substantially W-shaped.

48. (Original) The integrated circuit device of claim 41 wherein the profile includes a peak having a height ranging between about 25% and about 75% of a depth of the profile relative to a corresponding one of the plurality of first conductive layers.

49. (Original) The integrated circuit device of claim 41 wherein the profile is substantially concave relative to a corresponding one of the plurality of first conductive layers.

50. (Original) The integrated circuit device of claim 41 wherein the profile is a shallow-peaked profile including a peak having a height ranging between about 5% and about 25% of a depth of the profile relative to a corresponding one of the plurality of first conductive layers.

51. (Original) The integrated circuit device of claim 41 wherein the profile is a substantially trapezoidal, peaked profile.